COMPLIANCE MAINTENANCE ANNUAL REPORT

Facility Name: Madison City **Last Updated:** **Reporting Year: 2010**

Sanitary Sewer Collection Systems

	Questions	Points
1.	Do you have a Capacity, Management, Operation & Maintenance(CMOM) requirement in your WPDES permit?	
	○ Yes ● No	
2.	Did you have a documented (written records/files, computer files, video tapes, etc.) sanitary sewer collection system operation & maintenance or CMOM program last calendar year?	0
	● Yes (go to question 3) ○ No (30 points) (go to question 4)	
3.	Check the elements listed below that are included in your Operation and Maintenance (O&M) or CMOM program.:	
	☒ **Goals:** Describe the specific goals you have for your collection system: Convey wastewater to Nine Springs Wastewater Treatment Plant with minimum inflow, infiltration and exfiltration. Prevent public health hazards. Reduce inconvenience and damage by responsibly handling service interruptions. Eliminate claim and legal fees related to backup by providing immediate, concerned and efficient service to all emergency calls. Protect municipal investment by increasing the useful life and capacity of the system and parts. Use operating funds efficiently. Perform all activities safely and avoid injury. ☒ **Organization:** Do you have the following written organizational elements (check only those that you have): ☒ Ownership and governing body description ☒ Organizational chart ☒ Personnel and position descriptions ☒ Internal communication procedures ☒ Public information and education program ☒ **Legal Authority:** Do you have the legal authority for the following (check only those that apply): ☒ Sewer use ordinance Last Revised MM/DD/YYYY 12/05/2005 ☒ Pretreatment/Industrial control Programs ☒ Fat, Oil and Grease control ☒ Illicit discharges (commercial, industrial) ☒ Private property clear water (sump pumps, roof or foundation drains, etc) ☐ Private lateral inspections/repairs ☐ Service and management agreements ☒ **Maintenance Activities: details in Question 4** ☒ **Design and Performance Provisions:** How do you ensure that your sewer system is designed and constructed properly? ☒ State plumbing code ☒ DNR NR 110 standards ☒ Local municipal code requirements ☒ Construction, inspection and testing ☒ Others: City of Madison Public Works Standard Specifications	

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Sanitary Sewer Collection Systems (Continued)

- [x] **Overflow Emergency Response Plan:** Does your emergency response capability include (check only those that you have):
  - [x] Alarm system and routine testing
  - [x] Emergency equipment
  - [x] Emergency procedures
  - [x] Communications/Notifications (DNR, Internal, Public, Media etc)
- [x] **Capacity Assurance:** How well do you know your sewer system? Do you have the following?
  - [x] Current and up-to-date sewer map
  - [x] Sewer system plans and specifications
  - [x] Manhole location map
  - [x] Lift station pump and wet well capacity information
  - [x] Lift station O&M manuals

  Within your sewer system have you identified the following?
  - [x] Areas with flat sewers
  - [ ] Areas with surcharging
  - [ ] Areas with bottlenecks or constrictions
  - [x] Areas with chronic basement backups or SSO's
  - [x] Areas with excess debris, solids or grease accumulation
  - [x] Areas with heavy root growth
  - [x] Areas with excessive infiltration/inflow (I/I)
  - [ ] Sewers with severe defects that affect flow capacity
  - [ ] Adequacy of capacity for new connections
  - [ ] Lift station capacity and/or pumping problems
- [x] **Annual Self-Auditing of your O&M/CMOM Program** to ensure above components are being implemented, evaluated, and re-prioritized as needed.
- [ ] **Special Studies Last Year(check only if applicable):**
  - [ ] Infiltration/Inflow (I/I) Analysis
  - [ ] Sewer System Evaluation Survey (SSES)
  - [ ] Sewer Evaluation and Capacity Managment Plan (SECAP)
  - [ ] Lift Station Evaluation Report
  - [ ] Others:

4. Did your sanitary sewer collection system maintenance program include the following maintenance activities? Complete all that apply and indicate the amount maintained:

Cleaning	56.34	% of system/year
Root Removal	0.39	% of system/year
Flow Monitoring	0	% of system/year
Smoke Testing	0	% of system/year
Sewer Line Televising	6.3	% of system/year

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Sanitary Sewer Collection Systems (Continued)

	Manhole Inspections	7.51	% of system/year
	Lift Station O&M	79	# per L.S/year
	Manhole Rehabilitation	0.62	% of manholes rehabed
	Mainline Rehabilitation	0.78	% of sewer lines rehabed
	Private Sewer Inspections	0	% of system/year
	Private Sewer I/I Removal	0	% of private services

Please include additional comments about your sanitary sewer collection system below:

The engineering division O&M program includes aggressive preventive maintenance (total system cleaning once every three years) combined with CCTV inspections and active reaction to identified problems (reconstruction, trenchless rehab). The components of this program show results in the low number of complaints and sewer backups occurring in the last years.

5. Provide the following collection system and flow information for the past year:

37.86	Total Actual Amount of Precipitation Last Year
32.22	Annual Average Precipitation (for your location)
752.52	Miles of Sanitary Sewer
29	Number of Lift Stations
0	Number of Lift Station Failure
4	Number of Sewer Pipe Failures
26	Number of Basement Backup Occurrences
33	Number of Complaints

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Sanitary Sewer Collection Systems (Continued)

28.62	Average Daily Flow in MGD
	Peak Monthly Flow in MGD(if available)
	Peak Hourly Flow in MGD(if available)

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Sanitary Sewer Collection Systems (Continued)

	NUMBER OF SANITARY SEWER OVERFLOWS (SSO) REPORTED (10 POINTS PER OCCURRENCE)	0

	Date	Location	Cause	Estimated Volume (MG)
NONE REPORTED				

Were there SSOs that occurred last year that are not listed above?

○ Yes
● No

If Yes, list the SSOs that occurred:

PERFORMANCE INDICATORS

0.00	Lift Station Failures(failures/ps/year)
0.01	Sewer Pipe Failures(pipe failures/sewer mile/yr)
0.00	Sanitary Sewer Overflows (number/sewer mile/yr)
0.03	Basement Backups(number/sewer mile)
0.04	Complaints (number/sewer mile)
0.0	Peaking Factor Ratio (Peak Monthly:Annual Daily Average)
0.0	Peaking Factor Ratio(Peak Hourly:Annual daily Average)

6. Was infiltration/inflow(I/I) significant in your community last year?

○ Yes
● No

If Yes, please describe:

7. Has infiltration/inflow and resultant high flows affected performance or created problems in your collection system, lift stations, or treatment plant at any time in the past year?

○ Yes
● No

If Yes, please describe:

8. Explain any infiltration/inflow(I/I) changes this year from previous years?

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Sanitary Sewer Collection Systems (Continued)

9.	What is being done to address infiltration/inflow in your collection system?	
	The City of Madison program for infiltration and Inflow includes CCTV of the whole system every 10 years, areas that are identified as possible I/I problems can be further analyzed by Engineering personnel using smoke testing and/or flow testing. The engineering division uses this information to prioritize point repairs for immediate rehabilitation of the pipe, and areas that will be included in pipe reconstruction contracts or trenchless technology contracts (cure in place, directional drilling, pipe bursting)	

Total Points Generated	
Score (100 - Total Points Generated)	
Section Grade	

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WPDES No.0047341

GRADING SUMMARY				
SECTION	LETTER GRADE	GRADE POINTS	WEIGHTING FACTORS	SECTION POINTS
Financial Management		0.0	1	0
Collection Systems		0.0	3	0
TOTALS			4	0
GRADE POINT AVERAGE(GPA)=				

Notes:

A = Voluntary Range
B = Voluntary Range
C = Recommendation Range (Response Required)
D = Action Range (Response Required)
F = Action Range (Response Required)